**Planetary Forecaster**

**Learning Set 5.3**

**What is Different between Lower Elevations and Higher Elevations?**

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|  | **The Atmosphere is an Ocean of Air.** |
| **Questioning**  **Read**  **Page 140**  **Paragraph**  **1-4** | What is an **Analogy**?  Why does the author of the textbook describe the atmosphere as an ocean of air?  How are liquids and gases similar and different?  The term fluid is used to describe substances like liquids and gases, why? |
|  | **How much air is above you at high and low elevations?** |
| **Word Study**  **Read**  **141**  **Paragraph**  **1-2** | Compression means **squeezing**.  The pressure on the molecules at the bottom of the ocean are **( less than or greater)** than the molecules at the top.  Water at the bottom of the ocean is compressed by weight of the water above it. *What is causing the compression?* |
| **Determining Importance /**  **Summarize**  **Read**  **Page 141**  **Paragraph**  **3-4** | Summarize your knowledge of paragraphs 3 & 4 in as few sentences as possible. |
| **Visualization**  **Read**  **Page 142**  **Paragraph**  **1** | Density is the mass of matter (a substance) per unit volume. Draw an illustration that represents density.  The bottom of the ocean and atmosphere are denser than the top. Why? |
| **Making Connections**  **Read**  **Page 142**  **Paragraph**  **2-4** | Write about a time in your life that you have experienced a pressure change.  What does it mean when your ears pop?  How does the diagram on page 143 help to explain why climbers have to use Oxygen tanks when climbing at high altitudes? |

**What is the Point? (page143)** Write the relationship between air pressure and molecules?